



CERTIFICATE OF COMPLIANCE

Certificate Number: SGSNA/22/SH/00250

Contract Number: 801410

Certificate Project Number: SH-CERT220704225

Certified Product: Energy Storage System (including Hybrid Inverter and Battery Packs)

Trademarks: PYTES

Model(s): Forest 15K, Forest S8K L, Forest S9K L, Forest S10K L, Forest S12K L, Forest M5K, Forest M6K, Forest M7K6, Forest M8K, Forest M10K, Forest L12K, Forest L10K, Forest L8K, Forest A3K, Forest A5K

Technical Data: See page 2-6

Certificate Holder: Shanghai PYTES Energy Co., Ltd.
No. 3492 Jinqian Rd, Qingcun Town, Fengxian District, Shanghai, 201400, China

This certificate supercedes previous certificates issued with the same certificate number. Certification is valid when products are indicated on the SGS directory of certified products at www.sgs.com or using the QR code below. The product is certified according to ISO/IEC Guide 17067, Conformity assessment - Fundamentals of product certification, System 3, and in accordance with:

ANSI/CAN/UL 9540:2020, 2nd Edition, Dated February 27, 2020

Authorized by:

Effective date: 20 December 2023



Jason Wei
Certifier



Certification Body

Connectivity & Products, a division of SGS North America Inc.
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Additional Information:

Technical Data:

Forest 15K

Sol-Ark Limitless 15K-LV / E-BOX 48100R

PV Input: Max PV Input 19.5kW, Nominal PV Voltage Range 175~425V, Max Input Current per MPPT 26A

AC Output: Nominal AC Output Voltage 120/240V, 120/208V, Max AC Output Power 15kW, Max AC Output Current 62.5A, 50/60Hz, ± 0.9 adjustable

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 275A, Max Energy Output 61.44kWh, Charging / Discharging Temperature -10~50°C, 6000 cycles, Up to 12 battery packs in parallel

Forest S8K L

Sol-Ark Limitless 8K-LV / E-BOX 48100R

PV Input: Max PV Input 13kW, Nominal PV Voltage Range 175~425V, Max Input Current per MPPT 26A

AC Output: Nominal AC Output Voltage 120/240V, 120/208V, 220V, Max AC Output Power 8kW, Max AC Output Current 33.3A, 50/60Hz, ± 0.9 adjustable

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 180A, Max Energy Output 61.44kWh, Charging / Discharging Temperature -10~50°C, 6000 cycles, Up to 12 battery packs in parallel

Forest S9K L

Sol-Ark Limitless 9K-LV / E-BOX 48100R

PV Input: Max PV Input 13kW, Nominal PV Voltage Range 175~425V, Max Input Current per MPPT 26A

AC Output: Nominal AC Output Voltage 120/240V, 120/208V, 220V, Max AC Output Power 9kW, Max AC Output Current 37.5A, 50/60Hz, ± 0.9 adjustable

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 180A, Max Energy Output 61.44kWh, Charging / Discharging Temperature -10~50°C, 6000 cycles, Up to 12 battery packs in parallel

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Technical Data:

Forest S10K L

Sol-Ark Limitless 10K-LV / E-BOX 48100R

PV Input: Max PV Input 13kW, Nominal PV Voltage Range 175~425V, Max Input Current per MPPT 26A

AC Output: Nominal AC Output Voltage 120/240V, 120/208V, 220V, Max AC Output Power 10kW, Max AC Output Current 41.7A, 50/60Hz, ± 0.9 adjustable

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 275A, Max Energy Output 61.44kWh, Charging / Discharging Temperature -10~50°C, 6000 cycles, Up to 12 battery packs in parallel

Forest S12K L

Sol-Ark Limitless 12K-LV / E-BOX 48100R

PV Input: Max PV Input 13kW, Nominal PV Voltage Range 175~425V, Max Input Current per MPPT 26A

AC Output: Nominal AC Output Voltage 120/240V, 120/208V, 220V, Max AC Output Power 12kW, Max AC Output Current 50A, 50/60Hz, ± 0.9 adjustable

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 275A, Max Energy Output 61.44kWh, Charging / Discharging Temperature -10~50°C, 6000 cycles, Up to 12 battery packs in parallel

Forest M5K

Megarevo R5KLNA / E-BOX 48100R

PV Input: Max PV Input 7.5kW, MPPT Input Voltage 120~500V, Max. Input Current 12A*4

AC Output: AC Output Voltage 120V/240V Split Phase, 20.8A(22.9Amax), 50/60Hz, Power Factor Range -0.8~+0.8

Battery: Nominal Capacity 100Ah (5.12kWh) for each pack, Nominal Voltage 51.2Vdc, Charge/Discharge Current 50A, Operating Temperature -10~50°C, 6000 cycles, Up to 12 battery packs in parallel

Forest M6K

Megarevo R6KLNA / E-BOX 48100R

PV Input: Max PV Input 9kW, MPPT Input Voltage 120~500V, Max. Input Current 12A*4

AC Output: AC Output Voltage 120V/240V Split Phase, 25A(27.5Amax), 50/60Hz, Power Factor Range -0.8~+0.8

Battery: Nominal Capacity 100Ah (5.12kWh) for each pack, Nominal Voltage 51.2Vdc, Charge/Discharge Current 50A, Operating Temperature -10~50°C, 6000 cycles, Up to 12 battery packs in parallel

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Forest M7K6

Megarevo R7K6LNA / E-BOX 48100R

PV Input: Max PV Input 12kW, MPPT Input Voltage 120~500V, Max. Input Current 12A*4

AC Output: AC Output Voltage 120V/240V Split Phase, 31.7A(35Amax), 50/60Hz, Power Factor Range -0.8~+0.8

Battery: Nominal Capacity 100Ah (5.12kWh) for each pack, Nominal Voltage 51.2Vdc, Charge/Discharge Current 50A, Operating Temperature -10~50°C, 6000 cycles, Up to 12 battery packs in parallel

Forest M8K

Megarevo R8KLNA / E-BOX 48100R

PV Input: Max PV Input 12kW, MPPT Input Voltage 120~500V, Max. Input Current 12A*4

AC Output: AC Output Voltage 120V/240V Split Phase, 33.3A(36.7Amax), 50/60Hz, Power Factor Range -0.8~+0.8

Battery: Nominal Capacity 100Ah (5.12kWh) for each pack, Nominal Voltage 51.2Vdc, Charge/Discharge Current 50A, Operating Temperature -10~50°C, 6000 cycles, Up to 12 battery packs in parallel

Forest M10K

Megarevo R10KLNA / E-BOX 48100R

PV Input: Max PV Input 13kW, MPPT Input Voltage 120~500V, Max. Input Current 12A*4

AC Output: AC Output Voltage 120V/240V Split Phase, 41.7A(45.8Amax), 50/60Hz, Power Factor Range -0.8~+0.8

Battery: Nominal Capacity 100Ah (5.12kWh) for each pack, Nominal Voltage 51.2Vdc, Charge/Discharge Current 50A, Operating Temperature -10~50°C, 6000 cycles, Up to 12 battery packs in parallel

Forest L12K

LUXPOWERTEK LXP-LB-US 12K / E-BOX 48100R

PV Input: Max PV Input 18kW, MPPT Input Voltage 120~480V, Max. Input Current 25A/15A/15A

AC Output: AC Output Voltage 120V/240V, 120V/208V, 50A, 60Hz, Power Factor 0.99

Battery: Nominal Capacity 100Ah (5.12kWh) for each pack, Nominal Voltage 51.2Vdc, Charge/Discharge Current 50A, Operating Temperature -10~50°C, 6000 cycles, Up to 12 battery packs in parallel

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Forest L10K

LUXPOWERTEK LXP-LB-US 10K / E-BOX 48100R

PV Input: Max PV Input 15kW, Nominal PV Voltage Range 100~600V, Max. Input Current 25A/25A

AC Output: Nominal AC Voltage 120V/240V, 120V/208V, Max AC Output Power 10kW, Max AC Output Current 41.6A, 60Hz, Power Factor 0.99

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 210A, Max Energy Output 61.44kWh, Charging / Discharging Temperature -10~50°C, 6000 cycles, Up to 12 battery packs in parallel

Forest L8K

LUXPOWERTEK LXP-LB-US 8K / E-BOX 48100R

PV Input: Max PV Input 12kW, Nominal PV Voltage Range 100~600V, Max. Input Current 25A/25A

AC Output: Nominal AC Voltage 120V/240V, 120V/208V, Max AC Output Power 8kW, Max AC Output Current 33.3A, 60Hz, Power Factor 0.99

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 167A, Max Energy Output 61.44kWh, Charging / Discharging Temperature -10~50°C, 6000 cycles, Up to 12 battery packs in parallel

Forest A3K

APstorage ELS-3K / E-BOX 48100R

PV Input: Max PV Input 4600W

AC Output: Nominal AC Voltage 240V/120V, Max AC Output Power 3680W, Max AC Output Current 15.3A, 60Hz, Power Factor 0.99

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 77A, Max Energy Output 61.44kWh, Charging / Discharging Temperature -10~50°C, 6000 cycles, Up to 12 battery packs in parallel

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Additional Information:

Technical Data:

Forest A5K

APstorage ELS-5K / E-BOX 48100R

PV Input: Max PV Input 6250W

AC Output: Nominal AC Voltage 240V/120V, Max AC Output Power 5000W, Max AC Output Current 20.8A, 60Hz, Power Factor 0.99

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 100A, Max Energy Output 61.44kWh, Charging / Discharging Temperature -10~50°C, 6000 cycles, Up to 12 battery packs in parallel

Other Ratings:

IP65 for PCS (Sol-Ark, Megarevo, LUXPOWERTEK), Type 4X for PCS (APstorage), IP55 for Batteries with battery box, IP20 for Batteries without battery box

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